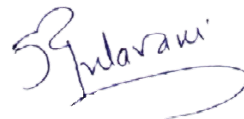


Rayat Shikshan Sanstha's
Savitribai Phule Mahila Mahavidyalaya, Satara.

B.Voc. in Nursing
Course Structure
B.Voc Nursing Part- II
Semester -III

Sr. No	Paper No	Title & No. of the Paper	Theory/ Practical / Project	Total Marks	Distribution of marks		Credits	
					Theory	Practical	Theory	Practical
1	XIX	Management of Nursing Service and Education-I	Theo. And Prac.	50	40	10	3	2
2	XX	Communication and Educational Technology & ICT-I	Theo. And Prac.	50	40	10	3	2
3	XXI	Medical Surgical Nursing-I	Theo.	50	50	-	3	-
4	XXII	Pharmacology-I	Theo.	50	50	-	3	-
5	XXIII	Fundamentals of Nursing-I	Theo.	50	50	-	3	-
6	XXIV	<u>Clinical/Lab Work:</u> Medical Surgical Nursing-I	Prac.	50	-	50	-	3
7	XXV	<u>Clinical/Lab Work:</u> Pharmacology-I	Prac.	50	-	50	-	3
8	XXVI	<u>Clinical/Lab Work:</u> Fundamentals of Nursing-I	Prac.	50	-	50	-	3
9	XXVII	Internship & Project work	Project	50	-	50	-	2

Approved & Recommended



Rayat Shikshan Sanstha's
Savitribai Phule Mahila Mahavidyalaya, Satara.

B.Voc. in Nursing
Courses Instruction
B.Voc Nursing Part- II
Semester -III

Sr. No.	Subject	Theory Hrs	Lab Hrs	Clinical Hrs	Total Hrs
1	Management of Nursing Service and Education-I	40	-	40	80
2	Communication and Educational Technology & ICT-I	30	-	-	30
3	Medical Surgical Nursing-I	120	40	250	410
4	Pharmacology-I	30	20	-	50
5	Fundamentals of Nursing-I	120	60	200	380
Total Hrs		340	120	490	950

Rayat Shikshan Sanstha's
Savitribai Phule Mahila Mahavidyalaya, Satara.

B.Voc. in Nursing
Course Structure
B.Voc Nursing Part- II
Semester -IV

Sr. No	Paper No	Title & No. of the Paper	Theory/ Practical / Project	Total Marks	Distribution of marks		Credits	
					Theory	Practical	Theory	Practical
1	XXVI II	Management of Nursing Service and Education –II	Theo. And Prac.	50	40	10	3	2
2	XXIX	Communication and Educational Technology & ICT –II	Theo. And Prac.	50	40	10	3	2
3	XXX	Medical Surgical Nursing-II	Theo.	50	50	-	3	
4	XXXI	Pharmacology-II	Theo.	50	50	-	3	
5	XXXI I	Fundamentals of Nursing-II	Theo.	50	50	-	3	
6	XXXI II	<u>Clinical/Lab Work:</u> Medical Surgical Nursing-II	Prac.	50	-	50		3
7	XXXI V	<u>Clinical/Lab Work:</u> Pharmacology-II	Prac.	50	-	50		3
8	XXX V	<u>Clinical/Lab Work:</u> Fundamentals of Nursing -II	Prac.	50	-	50		3
9	XXXVI	Internship & Project work	Project	50	-	50		2

Rayat Shikshan Sanstha's
Savitribai Phule Mahila Mahavidyalaya, Satara.

B.Voc. in Nursing
Courses Instruction
B.Voc Nursing Part- II
Semester - IV

Sr. No.	Subject	Theory Hrs	Lab Hrs	Clinical Hrs	Total Hrs
1	Management of Nursing Service and Education-II	40	-	40	80
2	Communication and Educational Technology & ICT-II	30	-	-	30
3	Medical Surgical Nursing-II	120	40	250	410
4	Pharmacology-II	30	20	-	50
5	Fundamentals of Nursing-II	120	60	200	380
Total Hrs		340	120	490	950

Scheme of Teaching: B.Voc in Nursing Part-II (Advance Diploma)- Semester- III

Sr. No.	Paper No.	Title	Distribution of workload (per week)		
			Theory	Practical	Total
1	XIX	Management of Nursing Service and Education-I	4	2	6
2	XX	Communication and Educational Technology & ICT-I	4	2	6
3	XXI	Medical Surgical Nursing-I	4	-	4
4	XXII	Pharmacology-I	4	-	4
5	XXIII	Fundamentals of Nursing-I	4	-	4
6	XXIV	Clinical/Lab Work: Medical Surgical Nursing-I	-	4	4
7	XXV	Clinical/Lab Work: Pharmacology-I	-	4	4
8	XXVI	Clinical/Lab Work: Fundamentals of Nursing-I	-	4	4
9	XXVII	Internship & Project work		-	-
		Total	22	16	36

Scheme of Teaching: B.Voc in Nursing Part-II (Advance Diploma)- Semester- IV

Sr. No.	Paper No.	Title	Distribution of workload (per week)		
			Theory	Practical	Total
1	XXVIII	Management of Nursing Service and Education –II	4	2	6
2	XXIX	Communication and Educational Technology & ICT-II	4	2	6
3	XXX	Medical Surgical Nursing-II	4	-	4
4	XXXI	Pharmacology-II	4	-	4
5	XXXII	Fundamentals of Nursing-II	4	-	4
6	XXXIII	Clinical/Lab Work: Medical Surgical Nursing-II	-	4	4
7	XXXIV	Clinical/Lab Work: Pharmacology-II	-	4	4
8	XXXV	Clinical/Lab Work: Fundamentals of Nursing -II	-	4	4
9	XXXVI	Internship & Project work		-	-
		Total	22	16	36

B.Voc. in Nursing Part – II
Semester - III

Paper – XIX: Management of Nursing Service & Education -I

Total Workload: 06 lectures per week of 60 min.

Distribution of Workload:

Theory: 04 lectures per week

Practical: 02 lectures per week per batch of 20 students

Total Marks: 50 marks (Theory 40 + Practical 10)

Units Prescribed for Theory:

Marks: 40

Aim: To enable students to acquire in-depth understanding of management of hospital services, management of nursing services and nursing educational programme and also to acquire understanding of the professional responsibilities, prospects and contribution to the growth of the Nursing profession.

Specific objectives—At the end of the course student will be able to:

1. Understand the principles and functions of management
2. Understand the elements and process of management
3. Appreciate the management of nursing services in the hospital and community.
4. Apply the concepts, theories and techniques of organizational behaviour and human relations.

Unit I:

Introduction to Management in Nursing

- History, Definition, concepts and theories
- Functions of management
- Principles of management
- Role of nurse as a manager and her qualities

Unit II:

Management Process

- Planning, mission, philosophy, objectives, operational plan
- Staffing: Philosophy, staffing study, norms, activities, patient classification system, scheduling
- Human resource management, recruiting, selecting, deployment, retaining, promoting, superannuation.
- Budgeting: Concept, principles, types, cost benefit analysis audit
- Material management: equipment and supplies
- Directing process (Leading)
- Controlling: Quality management
- Program Evaluation Review Technique (PERT), Bench marking, Activity Plan
- Gantt Chart

Unit III

Management of nursing services in the hospital

Planning

Hospital & patient care units including ward management
Emergency and disaster management

Human resource management

Recruiting, selecting, deployment, retaining, promoting, superannuation
Categories of nursing personnel including job description of all levels
Patients/ population classification system
Patients/ population assignment and nursing care responsibilities
Staff development and welfare programmes

Budgeting: Proposal, projecting requirements for staff, equipments and supplies for
Hospital and patient care units
Emergency and disaster management

Material management: Procurement, inventory control, auditing and maintenance in
Hospital and patient care units
Emergency and disaster management

Directing & Leading: delegation, participatory management

Assignments, rotations, delegations
Supervision & guidance
Implement standards, policies, procedures and practices
Staff development & welfare
Maintenance of discipline

❖ Controlling/Evaluation

- Nursing rounds/visits, Nursing protocols, Manuals
- Quality assurance model, documentation
- Records and reports
- Performance appraisal

Unit- IV

Organizational behavior and human relations

- Concepts and theories of organizational behaviors
- Review of channels of communication
- Leadership styles, Power, types
- Review of motivation: concepts and theories
- Group dynamics
- Techniques of:
 - Communication
 - Interpersonal relationships
 - Human relations
- Public relations in context of nursing
- Relations with professional associations and employee union
- Collective bargaining

REFERENCE:

1. TNAI.Nursing Administration and Management,1st edition, Academic Press: New Delhi,2000.
2. Shakharkar, BM. Principles of Hospital Administration and Planning, Jaypee Brothers: Banglore, 1998.
3. Pai, Pragna. Effective Hospital Management,1st edn, The National Book Depot: Mumbai, 2002.
4. Srinivasan, AV. Managing a Modern Hospital,1st edn ,Sage Publications: NewDelhi, 2002.
5. Basavanthappa, BT. Nursing Administration, 1stedn, JP Brothers Medical Publishers: New Delhi, 2000.
6. Goels & Kumar ,R. Hospital Administration and Management,1st edn, Deep and Deep Publications: New Delhi, 2000.
7. Park K. Park's Textbook of Preventive and Social Medicine, 17thedn, M/S Banarsidas Bhanot Publishers: Jabalpur,2003.
8. Russels, CS. Management & Leadership for Nurse Managers, 3rd edn, Jones Bartlett Publishers: London, 2002.
9. Francis, EM & Desouza, Mario. Hospital Administration, 3rd edn, Jaypee Brothers Medical Publishers: New Delhi, 2000.
10. Goddard, HA. Principles of Administration applied to Nursing Practice, WHO: Geneva, 1966.
11. Hersey,P.,Blanchard, HK & Johnson, ED. Management of Organizational Behavior, Pearson Education Indian Branch: New Delhi,2002.
12. Barret, Jean. Ward Management and Teaching, 2nd edn, English Book Society: New Delhi, 1967.

B.Voc. in Nursing Part – II
Semester - III

Paper – XX: Communication & Educational Technology & ICT- I

Total Workload: 06 lectures per week of 60 min.

Distribution of Workload:

Theory: 04 lectures per week

Practical: 02 lectures per week per batch of 20 students

Total Marks: 50 marks (Theory 40 + Practical 10)

Units Prescribed for Theory:

Marks: 40

Objectives: On completion of this course, the graduate nurse will be able to:

1. Understand the effective communication process using various communication techniques with individuals groups and health team members.
2. Establishes effective interpersonal and human relations with patients, families and health team members.
3. Acquires knowledge on concepts, principles on guidance and counseling and develop basic skills for counseling patients, nursing students and nursing personnel.
4. Understand the philosophy, principles of education and teaching learning process.

Unit 1: Review of Communication Process and Interpersonal Relations

- Process, elements and channels, effective communication
- Barriers and methods of overcoming
- Interpersonal Relations- Purpose, Types, Phases
- Barriers to interpersonal relations
- Methods of overcoming barriers
- Johari Window

Unit 2: Human Relations

- Understanding Self
- Social behavior social attitudes
- Individual and group & Groups and individual
- Human relations in context of nursing
- Group Dynamics
- Team Work

Unit 3: Guidance and Counseling

- Definition, meaning, purpose, scope and need
- Basic principles
- Areas of counseling
- Organization of counseling services
- Approaches to counseling
- Attributes and skills of counselor
- Issues for counseling in nursing students and nursing personnel
- Counseling process steps and techniques

- Tools for collecting information
- Problem solving approaches
- Management of crisis and referral

Unit 4: Principles of Education & Teaching Learning Process

- Education: meaning philosophy aims, functions, & principles
- Nature & Characteristics of learning
- Principles and maxims of teaching
- Domains of objectives & formulation of general and specific objective
- Lesson planning
- Class room management

Pattern of Question Paper
B.Voc. in Nursing Part II Sem.II
Paper XX: Communication and Education Technology

Time: 2 Hours

Marks: 40

Q.1) A) Multiple Choice questions (on Unit 1)	5
B) Answer in one word/phrase/sentence (Unit 1)	5
Q.2) Write answers in 100-150 words (2 out of 3) (on Unit 2)	10
Q.3) Write answers in 250-300 words (on Unit 3)	10
Q.4) Write answers in 250-300 words (on Unit 4)	10

Practical Evaluation:

Oral and presentation based on the prescribed units

Marks 10

Reference:

1. Bhatia, Kamala & Bhatia B.D.: *The Principles and Methods of Teaching* Delhi: Doaba House, 1977
2. Neeraja, *Nursing Education*: New Delhi, Jaypee Brother, 2004
3. Safaya, Raghunath & Shaida, B.D.: *Educational Theory & Practice*, Delhi, Dhanpat Row and Sons, 1974
4. Bhatia, Hans Raj: *Elements of Educational Psychology*, Bombay, Qnent Conpman, Sthed, 1973
5. Sharma, Suresh: *Communication and Educational Technology in Nursing* Elsevier India, 2016
6. Neeraja: *Textbook of Communication and Education Technology for Nurses*, New Delhi, Jaypee Brothers Medical Publishers, 2011
7. Pramila: *Nursing Communication and Education Technology*, New Delhi, Jaypee Brothers Medical Publishers, 2010

B.Voc. in Nursing Part – II
Semester - III

Paper – XXI: Medical Surgical Nursing -I

Total Workload: 08 lectures per week of 60 min.

Distribution of Workload:

Theory: 04 lectures per week

Practical: 04 lectures per week per batch of 20 students

Total Marks: 100 marks (Theory 50 + Practical 50)

Units Prescribed for Theory:

Marks: 50

Objectives:

1. To know the causes, patho-physiology, symptoms, treatment and prophylactic measures in common medical and surgical conditions affecting various systems of the body.
2. Provide patient centered nursing care to patients with common medical and surgical conditions affecting various systems of the body.
3. Prepare operation theatre for surgery and assist in operative procedures.
4. Identify common equipment used in operation theatre
5. Recognize and provide first aid in case of common emergencies using the resuscitation equipment including intubation.
6. Care for critically ill patients who required support for maintaining vital functions.
7. Provide first aid in case of disaster, emergency and accidents and demonstrate skill in transporting the casualties.
8. Organize casualty/emergency services.
9. Explain infectious diseases, their transmission and barrier nursing in hospital and community.
10. Explain the anesthesia used, with their effects and dangers, and care for an anesthetized patient until such time as he recovers from the effect of anesthesia.

Unit 1:

- **Introduction to Medical Surgical Nursing**, Evaluation & trends of medical & surgical nursing, review of concept of comprehensive Nursing care in Medical Surgical Condition based on Nursing Process.
- Role of nurse, patients & family in care of adult patients.
- Role & responsibility of nurse in medical surgical settings: - Outpatient department - Inpatient department - Intensive care units - Home & community settings -Introduction to medical surgical sepsis - Inflammation and Infection-Immunity - Wound healing
- Care of surgical patients: Pre-operative, Intra-operative, Post-operative.
- Common Sign and symptoms and management : Fluid & electrolyte imbalance, Vomiting, Dyspnea and cough, respiratory difficulty and obstructions, Fever, Shock , Unconsciousness, syncope, Pain, Incontinence, Edema, Age related problems, Geriatric problem.

Unit 2:

● Nursing management of patients (adults including elderly)

- Review of Anatomy & Physiology of respiratory system.
- Nursing Assessment – History & Physical assessment • Etiology, Patho-physiology, Clinical manifestations, diagnosis, treatment modalities & Medical, surgical, Nutritional & nursing management

Respiratory problems:

- Upper Respiratory tract infections, Bronchitis, Asthma, Emphysema, Empyema, Atelectasis, Chronic obstructive Pulmonary Diseases (COPD), Bronchiectasis, Pneumonia, Pulmonary tuberculosis, Lung abscess, Pleural effusion, Cysts & Tumors, Chest injuries, Respiratory arrest insufficiency, Pulmonary embolism • Special therapies, alternative therapies Nursing, Procedures Drugs used in treatment of respiratory disorders.

Musculoskeletal problems

- Disorders of:
- Muscles, ligaments and joints- inflammation, infection, trauma • Bones- inflammation, infection, dislocation, sprain, fracture, tumour & trauma • Osteomalacia and osteoporosis • Arthritis • Congenital deformities • Spinal column – defects and deformities, tumor, Prolapsed inter vertebral disc. Pott's spine • Paget's disease
 - Amputation • Prosthesis • Transplant and replacement surgeries • Rehabilitation special therapies, alternative therapies • Nursing procedures, drug used in treatment of disorders of musculoskeletal system

Food allergy & poisoning

- Small intestinal inflammation and infection: Ulcerative colitis, enteritis, malabsorption syndrome, Obstruction, tumors perforation
 - Large Intestinal disorders: Colitis inflammations & infection, obstruction, Tumors, lump Hernias
 - Appendix: Inflammation, mass, abscess, rupture
 - Anal & Rectum: Fistulas, fissures, Hemorrhoids
 - Peritonitis: acute abdominal
 - Pancreas: inflammation, cyst, abscess, tumours
 - Liver- Inflammation, cyst, cirrhosis, abscess, portal hypertension, hepatic failure and tumors
 - Biliary tract & gall bladder: Inflammation obstruction, stones, tumors
- Integumentary system:
- Disorders of skin and its appendages • Lesions and abrasions • Infection and infestations: Dermatitis
 - Dermatoses: Infectious and non infectious “inflammatory edematous • Acne vulgaris • Allergies and Eczema
 - Psoriasis • Malignant melanoma • Alopecia • Care of patient with Skin surgery • Special therapies, alternative therapies • Nursing procedures, • Drugs used in treatment of disorders of Integumentary system

Unit 3:

● Nursing management of patients (adults including elderly)

- Review of Anatomy & Physiology of respiratory system.
- Nursing Assessment – History & Physical assessment
- Etiology, Patho-physiology, Clinical manifestations, diagnosis, treatment modalities & Medical, surgical, Nutritional & nursing management

Blood and Cardiovascular problems:

- Vascular systems: Hypertension, hypotension, Raynaud's disease Aneurism and Peripheral vascular disorders
- Heart- Coronary artery disease - Ischemic heart disease - Coronary atherosclerosis - Angina pectoris - Myocardial infarction - Congestive cardiac failure - Cor pulmonale - Pulmonary Oedema - Cardiogenic shock - Cardiac tamponade - Endocarditis - Myocarditis, Pericarditis - Cardiomyopathies
- Valvular heart disease: - Congenital & acquired - Rheumatic heart disease
- Conduction system: - Cardiac dysarrhythmias & heart blocks
- Cardiac arrest- Cardiopulmonary resuscitation(CPR)
- Blood: - Anaemia - Polycythemia - Bleeding & clotting disorders, platelet defect - Hemophilia - Thalassemia
- Leukemia - Leukopenia Agranulocytosis - Lymphomas & Myelomas

Genitourinary problems:

- Nephritis - Nephrotic syndrome - Nephrosis - Renal calculus - Tumours - Acute renal failure - Chronic renal failure - End stage renal disease - Dialysis, renal transplant - Congenital disorders, urinary infections - Benign prostate hypertrophy
- Kidney: - Polycystic kidney • Disorders of ureter, urinary bladder and urethra: - inflammation, infections, calculus stricture, obstructions, tumors, prostate • Drug used in treatment of Genito-urinary disorders

Reproductive system:

- Congenital malformations: cryptorchidism • Infections: Hypospadias, Epispadias, • Infection Testis and adjacent structure • Penis • Prostate: inflammation, infection hypertrophy, tumor • Sexual Dysfunction • Infertility • Contraception • Breast, gynecomastia, tumors • Climacteric changes specialtherapies, alternative therapies.
- Nursing procedures • Drugs used in treatment of disorders of male reproductive system

Endocrine system:

- Disorders of pituitary • Disorders of thyroid and parathyroid • Adrenal tumour • Diabetes mellitus • Diabetes insipidus • special therapies, alternative therapies • Nursing procedures - Drugs used in treatment of disorders of endocrine system

Unit 4:

- Nursing management of patients (adults including elderly)
 - Review of Anatomy & Physiology of respiratory system.
 - Nursing Assessment – History & Physical assessment
 - Etiology, Pathophysiology, Clinical manifestations, diagnosis, treatment modalities & Medical, surgical, Nutritional & nursing management

Digestive system :Disorders of oral cavity

- Oral cavity - Lips, gums, tongue, salivary and teeth -esophagus inflammation, stricture, obstruction, bleeding & esophageal tumour, Stomach & Duodenum hiatus, hernia, gastritis, peptic & duodenal ulcer, bleeding, tumour pyloric stenosis

Immunological problems

- Immunodeficiency disorder · Primary Immuno deficiency · Phagocytic dysfunction · B-cell and T-cell deficiencies
- Secondary immunodeficiencies
- Acquired Immuno Deficiency Syndrome (AIDS)
- Incidence of HIV & AIDS: · Epidemiology · Transmission-prevention of Transmission · Standard safety precautions · Role of nurse, counseling · Health education and home care consideration, · National AIDS control program NACO various National and international agencies. • Infection control program · Rehabilitation, Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of immunological systems

Communicable Diseases:

- Tuberculosis, Diarrhoea diseases, Hepatitis A-E, Herpes, Chickenpox, Smallpox, Typhoid, Meningitis, Gas gangrene, Leprosy, Dengue, Plague, Malaria, Diphtheria, Pertussis, Poliomyelitis, Measles, Mumps, Influenza, Tetanus, Yellow fever, Filariasis, HIV, AIDS
- Reproductive Tract Infections • Special infection control measures; Notification, Isolation, Quarantine, Immunization, Infectious Disease, Hospitals, Special therapies, Alternative therapies · Nursing procedures
- Drugs used in treatment of communicable diseases

Peri Operative nursing:

- Organization and physical set up of the operation theatre (OT):
- Classification • O.T. DESIGN • Staffing • Members of the OT team • Duties and responsibility of nurse in OT
- Principles of health and operating room attire. • Instruments • Sutures and suture materials • Equipments • O.T. tables and sets for common surgical procedure • Scrubbing procedures • Gowning and gloving • Preparation of O.T sets • Monitoring the patients during surgical procedures • Maintenance of therapeutic environment in O.T.
- Standard safety measures: Infection control: fumigation, disinfections and sterilization
% Biomedical waste management • Prevention of accidents and hazards in O.T. • Anesthesia: Types, Methods of administration, Effects and stages, Equipment, Drugs • Cardio pulmonary Resuscitation (CPR) • Pain management techniques • Legal Aspects

EDUCATIONAL VISITS:

Medical Surgical Nursing:

1. Artificial Kidney Unit
2. C.S.S.D.
3. Waste Disposal Unit
4. Hospital Kitchen

Reference:

1. Black J.M. Hawk, J.H. (2005) Medical Surgical Nursing Clinical Management for Positive Outcomes. (7th ed) Elsevier.
2. Brunner S. B., Suddarth D.S. The Lippincott Manual of Nursing practice J.B.Lippincott. Philadelphia.
3. Medical Surgical Nursing: an integrated approach 2 nded, White, L, Delmar Thomson learning (2002) United States
4. Lewis, Heitkemper & Dirksen (2000) Medical Surgical Nursing Assessment and Management of Clinical Problem (6 th ed) Mosby.
5. Colmer R.M. (1995) Moroney's Surgery for Nurses (16 th ed) ELBS.
6. Shah N.S. (2003) A P I textbook of Medicine, The Association of Physicians of India Mumbai.
7. Satoskar R.S., Bhandarkar S.D. & Rege N.N. (2003) Pharmacology and Pharmacotherapeutics (19 th ed) Popular Prakashan, Mumbai.
8. Phipps W.J., Long C.B. & Wood N.F. (2001) Shaffer's Medical Surgical Nursing B.T.Publication Pvt. Ltd. New Delhi.
- 9 Datta T.K. (2003) Fundamentals of Operation Theatre Services, Jaypee, New Delhi.
10. Maheswari J Essentials of Orthopedics (3rd ed) Mehta Publication, New Delhi.
- 11 Pasricha J.S., Gupta R. (2001) Illustrated Text book of Dermatology (2nd ed) Jaypee brothers New Delhi.
12. Haslett C., Chilvers E.R., Hunder J.A.A. & Boon, N.A. (1999) Davidson's Principles and Practice of Medicine (18 th ed) Churchill living stone. Edinburgh.
- 13 Walsh M. (2002) Watson's Clinical Nursing and Related Sciences (6th ed) Bailliere Tindall Edinburgh.
14. Medical Surgical Nursing: an integrated approach 2nd ed, White, L, Delmar Thomson learning (2002) United States
15. Medical Surgical Nursing: A Nursing process approach Vol. I & II, Ignatavicius, Donna & Workman, Linda, W. B. Saunders company, Philadelphia (1995)
16. The Lippincott Manual of Nursing practice, 7th ed, Netting, Sandra, Lippincott Williams & Wilkins, Philadelphia

B.Voc. in Nursing Part – II
Semester - III

Paper – XXII: Pharmacology -I

Total Workload: 08 lectures per week of 60 min.

Distribution of Workload:

Theory: 04 lectures per week

Practical: 04 lectures per week per batch of 20 students

Total Marks: 100 marks (Theory 50 + Practical 50)

Units Prescribed for Theory:

Marks: 50

Objectives – at the end of the course the students are able to:

1. Understand the basic concepts of pharmacology
2. Understand the pharmacology of common chemo-therapeutics.
3. To know in detail regarding used antiseptics, disinfectants, and insecticides.
4. To explain in detail regarding drug acting on GI, respiratory tract, Urinary system.
5. Understand the used of drugs in skin and cardiovascular system.

Unit 1:

● **Introduction to pharmacology**

- Definitions • Sources • Terminology use • Types: Classification
- Pharmacodynamics: Actions, therapeutic, Adverse, toxic effects.
- Pharmacokinetics: Absorption, distribution, metabolism, interaction, excretion
- Review: Routes and principles of administration of drugs
- Indian pharmacopoeia: Legal issues
- Storage of various drugs
- Calculation of drugs dosage
- Rational use of drugs
- Principles of therapeutics

Unit 2:

● **Chemotherapy**

Pharmacology of commonly used:

- Penicillin • Cephalosporins • Amino glycosides
- Macrolide & BroadSpectrum Antibiotics
- Sulfonamides • Quinolones • Antiamoebic
- Antimalarials • Anthelmintics • Antiscabies agents
- Antiviral & Antifungal agents • Antitubercular drugs
- Antileprosy drugs • Anticancer drugs
- Immuno-suppressants

Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity & role of nurse.

Unit 3:

- **Pharmacology of commonly used antiseptics, disinfectants, and insecticides**
 - Antiseptics: Composition: action, dosage, route, indications, contraindication, drug interaction, side effects, adverse effects, toxicity and role of nurse.
 - Disinfectants, Insecticides.
- **Drugs acting on GI system**
 - Pharmacology of commonly used: Antiemetics, Emetics, Purgatives, Antacids, Cholinergic, Anticholinergic, Fluid and electrolyte therapy, Anti diarrheal's, Histamines.
- **Drugs acting on respiratory system**
 - Pharmacology of commonly used: Antiasthmatics, Mucolytics, Decongestants, Expectorants, Antitussives, Bronchodilators, Antihistamines.
- **Drugs acting in urinary system**
 - Pharmacology of commonly used: Diuretics and anti diuretics, Urinary antiseptics, Cholinergic and Anticholinergic, Acidifiers and alkalinizers.
 - Composition: action, dosage, route, indications, contraindication, drug interaction, side effects, adverse effects.

Unit 4:

- **Drugs used on skin and mucus membranes**
 - Topical applications for skin, eye, ear, nose, and buccal cavity
 - Antipruritics Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity & role of nurse.
- **Cardiovascular Drugs**
 - Haematinics • Cardiotonics • Anti anginals • Antihypertensives & vasodilators • Anti-arrhythmics • Plasma expanders • Coagulants & anticoagulants • Antiplatelets & thrombolytics • Hypolipidemics: Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity & role of nurse.

Reference Books:

1. Satoskar, Bhandarkar, Ainapure: Pharmacology and Pharmacotherapeutics, 18 Edition Popular Prakashan Mumbai.
2. M M Das: Pharmacology, Books & Allied (p) Ltd, 4 Edition 2001.
3. Linda, Skidmore Roth: Mosby's 2000 Nursing Drug Reference, Mosby Inc, Harcourt Health Sciences Company, Missouri 2000.
4. Ramesh Karmegan: First aid to Pharmacology for undergraduates, Paras Medical publishers, Hyderabad, India, 1 Edition 2003.
5. K D Tripathi: Essentials of Medical Pharmacology, 4 Editions, Jaypee Brothers, Bangalore.
6. Govoni & Hayes: Drugs and nursing implications, 8 Edition, Appleton & Lange Newyork.
7. Rodman & Smith: Clinical pharmacology in nursing, 2 Edition, J B Lippincott company, Philadelphia.
8. Richard A Lehne : Pharmacology for nursing care , 3 Edition ,W B S aunderers company , Philadelphia, 1990.
9. Lalit Mishra: Drug Today, Vol 12, No 12, Lorina publications Inc. Delhi 2004.

B.Voc. in Nursing Part – II
Semester - III

Paper – XXIII: Fundamentals of Nursing -I

Total Workload: 08 lectures per week of 60 min.

Distribution of Workload:

Theory: 04 lectures per week

Practical: 04 lectures per week per batch of 20 students

Total Marks: 100 marks (Theory 50 + Practical 50)

Units Prescribed for Theory:

Marks: 50

DESCRIPTION: This course is designed to help novice nursing students develop knowledge and competencies required to provide evidence-based, comprehensive basic nursing care for adult patients, using nursing process approach.

COMPETENCIES

On completion of the course, the students will be able to

1. Develop understanding about the concept of health, illness and scope of nursing within health care services
2. Apply values, code of ethics and professional conduct in professional life
3. Apply the principles and methods of effective communication in establishing communication links with patients, families and other health team members
4. Develop skill in recording and reporting
5. Demonstrate competency in monitoring and documenting vital signs
6. Develop understanding about fundamentals of health assessment and perform health assessment in supervised clinical settings
7. Describe the principles and techniques of infection control and biomedical waste management
8. Identify and meet the comfort needs of the patients
9. Perform admission, transfer, and discharge of a patient under supervision applying the knowledge
10. Demonstrate understanding and application of knowledge in caring for patients with restricted mobility
11. Identify the educational needs of patients and demonstrate basic skills of patient education.

Unit 1:

Introduction to health and illness:

- Concept of Health: Definitions(WHO),Dimensions
- Maslow's hierarchy of needs, Health-Illness continuum, factors influencing health, Causes and risk factors for developing illnesses,Illness:Types,Illness behavior, Impact of illness on patient and family

History of Nursing and Nursing as a profession:

- History of Nursing, History of Nursing in India
- Contributions of Florence Nightingale
- Nursing:Definition-Nurse,Nursing,Concepts,philosophy,objectives, Characteristics, nature and Scope of Nursing /Nursing practice, Functions of nurse, Qualities of a nurse,Categories of nursing personnel
- Code of ethics and professional conduct for nurses

Health Care delivery Systems:Introduction of basic concepts & meanings

- Levels of Illness Prevention-primary (health promotion), secondary and tertiary
- Levels of care-Primary, Secondary and Tertiary
- Types of health care agencies/ Services-Hospitals, clinics, Hospice, rehabilitation centers, extended care facilities
- Hospitals:Types, Organization and Functions
- Health care teams in hospitals-members and their role

Unit 2:

Communication and Nurse patient relationship:

- Communication:Levels, Elements and Process, Types, Modes, Factors influencing communication, Methods of effective communication/ Therapeutic Communication Techniques, Barriers to effective communication/ Non therapeutic Communication techniques, Professional communication, Helping Relationships (Nurse Patient Relationship) :Purposes and Phases, Communicating effectively with patient, families and team members, Maintaining effective human relations and communication with vulnerable groups (children, women, physically and mentally challenged and elderly)

Documentation and Reporting:

- Documentation: Purposes of Reports and Records, Confidentiality, Types of Client records/ Common Record-keeping forms, Methods/ Systems of documentation/ Recording, Guidelines for documentation, Do's and Don'ts of documentation/ Legal guidelines for, Documentation/ Recording, Reporting: Change-of shift reports, Transfer reports,Incident reports

Vital signs:

- Guidelines for taking vital signs
 - *Body temperature:*
 - Definition,Physiology,Regulation,Factors affecting body temperature
 - Assessment of body temperature: Sites,equipment and technique
 - Temperature alterations: Hyperthermia, Heat Cramps, Heat Exhaustion, Heat stroke, Hypothermia
 - Fever/Pyrexia- Definition, Causes, Stages, Types, Nursing Management
 - Hot and Cold applications
 - *Pulse:*
 - Definition, Physiology and Regulation, Characteristics, Factors affecting pulse

- Assessment of pulse: sites, equipment and technique
- Alterations in pulse
- *Respiration:*
 - Definition, Physiology and Regulation, Mechanics of breathing, Characteristics, Factors affecting respiration
 - Assessment of respirations: Technique
 - Arterial Oxygen saturation
 - Alterations in respiration
- *Blood pressure:*
 - Definition, Physiology and Regulation, Characteristics, Factors Affecting BP
 - Assessment of BP: sites, equipment and technique, Common Errors in BP Assessment
 - Alterations in Blood Pressure
 - Documenting Vital Signs

Unit 3:

Health assessment

- Interview techniques, Observation techniques, Purposes of health assessment,
- Process of Health assessment
 - Health history
 - Physical examination:
 - Methods-Inspection, Palpation, Percussion, Auscultation, Olfaction
 - Preparation for examination: Patient and unit
 - General assessment
 - Assessment of each body system
 - Documenting health assessment findings

Equipment and Linen

- Types: Disposables and reusable
 - ✓ Linen, rubber goods, glassware, metal, plastics, furniture
 - ✓ Introduction: Indent, maintenance, Inventory

Introduction to Infection control in Clinical setting Infection

- Nature, Chain, Types, Stages of Infection
- Factors increasing susceptibility to infection
- Body defenses against infection: Inflammatory response & Immune response
- Health care associated infection (Nosocomial infection)

Introductory concept of Asepsis: Medical & Surgical asepsis Precautions

- Hand Hygiene (Hand washing and use of hand Rub)
- Use of Personal Protective Equipment (PPE)
- Standard precautions

Biomedical Waste management-Types of hospital waste, waste segregation and hazards

Comfort, Rest & Sleep and Pain-

- Comfort-Factors Influencing Comfort, Types of beds & bed making, Therapeutic positions, Comfort devices.
- Sleep and Rest- Physiology of sleep, Factors affecting sleep, Promoting Rest and sleep, Sleep Disorder.
- Pain (Discomfort)- Physiology, Common cause of pain, Types, Assessment, Pharmacological and Non-pharmacological pain relieving measures, Invasive

techniques of pain management, CAM (Complementary & Alternative healing Modalities)

Unit 4:

Promoting Safety in Health Care Environment

- Physical environment: Temperature, Humidity, Noise, Ventilation, Light, Odor, Pest control
- Reduction of Physical hazards: fire, accidents
- Fall Risk Assessment
- Role of nursing providing safe and clean environment
- Safety devices:
 - Restraints- Types, Purposes, Indications, Legal Implications and Consent, Application of Restraints- Skill and Practice guidelines
 - Other Safety Devices: Side rails, Grab bars, Ambu alarms, non-skid slippers etc.

Hospital Admission and discharge

- Admission to the hospital Unit and preparation of unit
 - Admission bed, Admission procedure, Medico-legal issues, Roles and responsibilities of the nurse
 - Discharge from the hospital: Types: Planned discharge, LAMA and Abscond, Referrals and transfer, Discharge Planning, Discharge procedure, Medico-legal issues Roles and Responsibilities of the nurse, Care of the unit after discharge

Mobility and Immobility

- Elements of Normal Movement, Alignment & Posture, Joint Mobility, Balance, Coordinated Movement, Principles of body mechanics, Factors affecting Body Alignment and activity, Exercise-Types and benefits, Effects of Immobility, Maintenance of normal Body Alignment and Activity
- Alteration in Body Alignment and mobility
- Nursing interventions for impaired Body Alignment and Mobility: assessment, types, devices used, method.
- Assisting clients with ambulation
- Care of patients with Immobility using Nursing process approach
- Care of patients with casts and splints

Patient education

- Patient Teaching: Importance, Purposes, Process, Integrating nursing process in patient teaching

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4. Comprehensive Textbook Of Foundation Of Nursing Paperback – 1 January 2016
by Nissanka Rebecca Jaypee Brothers Medical Publishers; first edition (1 January 2016)
5. Fundamentals of Nursing For B.Sc Nursing Students, 3rd.ed. Paperback – 1 January 2020
by Celestina Francis (Author), Kritika Mishra (Author) Lotus Publishers (1 January 2020)
6. Celestina Francis, Kritika Mishra. Fundamental of Nurses for B.Sc Nursing Students, Lotus Publishers Pvt Edition: 3rd, 2020.
7. Taylor. Fundamentals of Nursing, Wolters Kluwer India Pvt. Ltd.; Eighth edition (1 January 2016)
8. Annamma Jacob. Clinical Nursing Procedures: The Art of Nursing Practice 3rd Edition, Kindle Edition; Jaypee Brothers Medical Publishers (P) Ltd.; 4th edition (1 September 2014).
9. Omayal Achi. Manual of Nursing Procedures, Wolters Kluwer India Private Limited; Second edition (15 January 2018)
10. CP Thresyamma Fundamentals Of Nursing Procedure Manual For General Nursing & Midwifery Course, 1st Edt, Jaypee Brothers Medical Publishers Year: 2004

B.Voc. in Nursing Part – II
Semester - III
Paper – XXIV: Lab Work and Clinical: Medical Surgical
Nursing-I

Total Workload: 04 lectures per week of 60 min.

Distribution of Workload:

Practical: 04 lectures per week per batch of 20 students

Practicals:

Marks: 50

Objectives:

1. Utilize the nursing process in providing care to the sick adults in the hospital
2. Provide comfort and safety to adult patients in the hospital
3. Maintain safe environment for patients during hospital.
4. Provide pre, intra and post-operative care to patient undergoing surgery.
5. Ensure patient safety while providing nursing procedures.

Sr.No.	Nursing Skills
1.	Pre-operative Preparation
2.	Post operation care: Setting of Postoperative unit, Post operative care, Recovery room, Ward, Surgical dressin, Removal of sutures
3.	Operation Theatre Technique: Preparation & packing of articles for surgery, Disinfecting theOT, Surgical scrubbing, Gowning and Gloving, Setting up of sterile trolley for surgery.
4.	Parenteral administration of drugs: Subcutaneous, Intra dermal, Intra Muscular, Intravenou,Blood transfusion.
5.	Intensive Care: Setting up of emergency trolley, Suctioning , Oropharyngeal, Endo tracheal, Tracheostomy care, Assisiting in endotracheal intubation, Assisting in Ventilator care, Assisting in cardiac monitoring, Assisting in defibrillation, Assisting in monitoring pulse oxymeter
6.	Observation of specific diagnostic & therapeutic procedures
I	Vascular system: IV canulation, Central Venous pressure (CVP)
II	Genito urinary system: Catheterization, Bladder irrigation, Cystoscopy, Assisting in peritonealdialysis, Assisting in hemodialysis, Assisting in renal biopsy

III	Endocrine System: Fasting blood sugar(FBS), Post prandial blood sugar (PPBS), Glucosetolerance test (GTT), Thyroid function test- T3, T4, TSH
IV	Gastro Intestinal System: Proctoscopy, Endoscopy, Cholecystography, Oesophago, gastrodueodenoscopy (OGD)
V	Ostomy care: Gastrostomy, Colostomy, Enterostomy, Ostomy feeding, Pancereatiography(ERCP)
VI	Orthopedic Nursing: Assessment of Orthopaedic Patient, Preparation & assisting in application of plaster cast, Application of splints, Assisting in skeletal traction, Assisting inapplication and removal of prosthesis, Preparation of patient for bone surgery.
VII	Cardio Thoracic Nursing : Cardio Thoracic assessment, Electro cardiogram monitoring (Interpreting ECG), Performing cardio pulmonary resuscitation (CPR), Assisting in CardiacCatheterization, Stress test
VIII	Respiratory Nursing: Postural Drainage, Chest Physiotherapy, Care of Chest Drainage
IX	Miscellaneous: Liver Biopsy, Liver function tests, Abdominal paracentesis, Liver biopsy

B.Voc. in Nursing Part – II
Semester - III
Paper– XXV: Lab Work & Clinical: Pharmacology -I
Total Workload: 04 lectures per week of 60 min.

Distribution of Workload:

Practical: 04 lectures per week per batch of 20 students

Practicals:

Marks: 50

Objectives: To know the drugs details regarding the classification, Factor affecting action, Indication and contraindication, action, adverse effect and nursing responsibility.

Assignments:

- | | |
|-------------------------------------|----------|
| a) Pharmacology - Drug Study Book | 25 Marks |
| b) Pharmacology - Drug Presentation | 25 Marks |

Format for Drug study book: -

- i) Drug study
- ii) Index of drug
- iii) Introduction
- iv) Classification of drugs
- v) Factors affecting action of drugs
- vi) Name of the drug (Trade & Pharmaceutical name)
- vii) Preparation, strength and dose
- viii) Indications and contraindications
- ix) Actions
- x) Adverse effects and drug interactions
- xi) Nursing responsibility
- xii) Conclusion
- xiii) References

Evaluation criteria :

Planning and organization-----	05
Content.....	10
Nursing responsibility-----	05
Conclusion & References-----	05
Total.....	25

B.Voc. in Nursing Part – II
Semester - III

Paper –XXVI: Lab Work & Clinical: Fundamentals of Nursing -I

Total Workload: 04 lectures per week of 60 min.

Distribution of Workload:

Practical: 04 lectures per week per batch of 20 students

Practicals:

Marks: 50

Objectives: On completion of the course, the students will be able to-

1. Maintain effective human relations
2. Demonstrate skills in techniques of recording and reporting
3. Demonstrate skill in monitoring vital signs
4. Care for patients with altered vital signs
5. Demonstrate skill in implementing standard precautions and use of PPE
6. Demonstrate skill in meeting the comfort needs of the patients
7. Demonstrate skill in admission, transfer, and discharge of a patient
8. Demonstrate skill in caring for patients with restricted mobility
9. Plan and provide appropriate health teaching following the principles.

S.NO	COMPETENCIES	MODE OF DEMONSTRATION
Semester- III		
1.	Vital signs	Simulator/ Standardized patient
2.	Physical Examination	Simulator /Mannequin/ Standardized patient
3.	Comfort Devices	Mannequin
4.	Therapeutic Positions	Mannequin
5.	Physical Restraints and Side rails	Mannequin
6.	Sponge bath, oral hygiene, Perineal care	Mannequin
7.	Nasogastric tube feeding	Tainer/Simulator
8.	Moving and Turning patients in bed	Mannequin
9.	Changing position of helpless patients	Mannequin/Standardized patient
10.	Transferring patients bed to stretcher/ Wheel chair	Mannequin/Standardized patient
11.	Admission, Transfer, Discharge & Health Teaching	Role Play

SEMESTER - III

Sr.No.	Nursing Skills
1.	Admission of Patient
2.	Transfer of Patient
3.	Discharge of patient
4.	Personal Hygiene: Bath in Bed, Assisted Bath, Hair care, Combing Hair wash, Pediculosis treatment, Oral hygiene: Helpless Patient and Unconscious Patient, Care of hand & feet.
5.	Prevention of bed sores: Back care, Care of pressure points, Bed Sore dressing (minor), Use of special mattress/ beds
6.	Bed making: Bed making without patient, Bed making with Patient, Cardiac bed/ Folder's bed, Operation bed, Divided bed, Fracture bed, Renal Bed
7.	Positioning: Recumbent, Semi recumbent, Fowler's, Prone, Lateral, Supine, Lithotomy
8.	Comfort Devices: Air cushion, Back rest, Bed cradle, Foot boards, Sand bags, Bed blocks, Cardiac table, Ringnards.
9.	Lifting & Moving of Patients: From bed to chair & back, From bed to trolley & back, From trolley to chair & back
10.	Nutrition: Preparation of fluid diet, Preparation of soft diet, Preparation of Normal diet, Serving patients, Feeding helpless patient, Artificial feeding, Insertion of N.G. tube.
11	Bandaging: Simple spiral, Reverse spiral, Figure of Eight, Simple Spica, Stump bandage, Eye bandage, Ear bandage, Shoulder bandage, Finger bandage & thumb bandage, Breast and chest bandage, Sling & Triangular bandage, Abdominal bandage & T-binder, Collar bandage, Jaw bandage, Splinting.

B.Voc. in Nursing Part – II
Semester - III

Paper – XXVII: Internship & Project work

Total Workload: 04 lectures per week of 60 min.

Distribution of Workload:

Practical: 04 lectures per week per batch of 20 students

Practicals:

Marks: 50

Internship in associated hospital for hands on training and Project work based on any one aspect / Problem related to syllabus.

Scheme of External Evaluation :-

a) Internship

- | | |
|---------------------------------|----------|
| 1) Internship Report | 15 Marks |
| 2) Presentation and viva - Voce | 10Marks |

b) Project Work

- | | |
|---------------------------------|----------|
| 1) Project Report | 15 Marks |
| 2) Presentation and viva - Voce | 10 Marks |

I) Format of Internship Report

1. Introduction to Course and relevance of associated institutes
2. Objective of Internship
3. Schedule and Attendance of Internship
4. Detail Report on Hands on training regarding acquired skills
5. Conclusion

II) Project Design and Methodology

1. Introduction
2. Selection of Problem
3. Objectives
4. Statement of Problem / Project
5. Data Collection, Interpretation
6. Finding and Suggestions
7. Appendices, Bibliography

➤ **Note :**

Guidelines for internship

1. Every candidate have to devote per day 6 hours in associated hospital and complete their total Clinical hours as per the subjects.
2. Candidate has to write daily report of work done, and should maintain the daily dairy

3. Candidate has to follow all the rules of associated institute / hospitals.

Guidelines for Project

1. Every candidate will be given the mentor for the project, she has to prepare the project work. Under his/ her supervision
2. All candidates must have to follow the **Project Design and Methodology** format

SEMESTER- IV

B.Voc. in Nursing Part – II

Semester - IV

Paper –XXVIII: Management of Nursing Service & Education -II

Workload: 06 lectures per week of 60 min.

Distribution of Workload:

Theory: 04 lectures per week

Practical: 02 lectures per week per batch of 20 students

Total Marks: 50 marks (Theory 40+Practical 10)

Units Prescribed for Theory:

Marks: 40

Aim: To enable students to acquire in-depth understanding of management of hospital services, management of nursing services and nursing educational programme and also to acquire understanding of the professional responsibilities, prospects and contribution to the growth of the Nursing profession.

Specific objectives – At the end of the course student will be able to:

1. Develop skills in planning and organizing in service education
2. Understand the management of nursing educational institutions.
3. Describe the ethical and legal responsibilities of a professional nurse
4. Understand the various opportunities for professional advancement.

Unit- I

In-service education

- Nature & scope of in- service education program
- Organization of in- service education
- Principles of adult learning
- Planning for in-service education program, techniques, methods, and evaluation of staff education program
- Preparation of report

Unit- II

Management of Nursing educational institutions

- ❖ Establishment of nursing educational institution – INC norms and guidelines
- ❖ Co-ordination with
 - Regulatory bodies
 - Accreditation
 - Affiliation – Philosophy/ Objectives, Organization
 - Structure

- Committees- Physical facilities
- College / School
- Hostel – Students
- Selection
- Admission procedures
- Guidance and counseling
- Maintaining discipline- Faculty and staff
- Selection
- Recruitment
- Job description
- Placement
- Performance appraisal
- Development and welfare
- ❖ Budgeting
- ❖ Equipments and supplies: audiovisual equipments, laboratory equipments, books, journals etc.
- ❖ Curriculum: Planning, Implementation and Evaluation
- ❖ Clinical facilities
- ❖ Transport facilities
- ❖ Institutional Records, and reports – Administrative, Faculty, Staff and Students.

Unit- III

Nursing as a Profession

- ❖ Nursing as a Profession
 - Philosophy; nursing practice
 - Aims and Objectives
 - Characteristics of a professional nurse
 - Regulatory bodies; INC, SNC Acts:- Constitution, functions
 - Current trends and issues in Nursing
- ❖ Professional ethics
 - Code of ethics; INC, ICN
 - Code of professional conduct; INC, ICN.
- ❖ Practice standards for nursing; INC
- ❖ Consumer Protection Act
- ❖ Legal aspects in Nursing
 - Legal terms related to practice; Registration and licensing
 - Legal terms related to Nursing practice; Breach and penalties
 - Malpractice and Negligence

Unit- IV

Professional Advancement

- ❖ Continuing education
- ❖ Career opportunities
- ❖ Collective bargaining
- ❖ Membership with Professional Organizations; National and International
- ❖ Participation in research activities
- ❖ Publications; Journals, Newspaper etc.

REFERENCES BOOKS:

1. TNAI. Nursing Administration and Management, 1st edn, Academic Press: New Delhi, 2000.
2. Shakharkar, B M. Principles of Hospital Administration and Planning, Jaypee Brothers: Bangalore, 1998.
3. Pai, Pragna. Effective Hospital Management, 1st edn, The National Book Depot: Mumbai, 2002.
4. Srinivasan, A V. Managing a Modern Hospital, 1st edn, Sage Publications: New Delhi, 2002.
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7. Park K. Park's Textbook of Preventive and Social Medicine, 17th edn, M/S Banarsidas Bhanot Publishers: Jabalpur, 2003.
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9. Francis, E M & Desouza, Mario. Hospital Administration, 3rd edn, Jaypee Brothers Medical Publishers: New Delhi, 2000.
10. Goddard, H A. Principles of Administration applied to Nursing Practice, WHO: Geneva, 1966.
11. Hersey, P. , Blanchard, H K & Johnson, E D. Management of Organizational Behavior , Pearson Education Indian Branch: New Delhi, 2002.
12. Barret, Jean. Ward Management and Teaching, 2nd edn, English Book Society: New Delhi, 1967.

B.Voc. in Nursing Part – II
Semester - IV

Paper – XXIX: Communication and Educational Technology & ICT- II
Total Workload: 06 lectures per week of 60 min.

Distribution of Workload:

Theory: 04 lectures per week

Practical: 02 lectures per week per batch of 20 students

Total Marks: 50 marks (Theory 40 + Practical 10)

Units Prescribed for Theory:

Marks: 40

Objectives: On completion of this course, the graduate nurse will be able to:

1. Demonstrate teaching skills using various teaching methods in classroom, clinical and community setup using different methods and media.
2. Demonstrate skill in preparing different types of assessment tools for knowledge attitude and skill.

Unit 1: Methods of Teaching:

- Lecture, demonstration
- Group discussions, Seminar, Symposium, panel discussion, role play.
- Project method field trip, workshop, exhibition
- Computer assisted learning programmed instructions
- Micro- teaching, Evidence based learning
- Self-instructional module, simulation etc.

Clinical Teaching Methods:

- Bedside Clinics, Case Method, Nursing rounds, morning & afternoon reports,

Conference

- Individual & group, Field visits, process recording.

Unit 2: Educational Media

- Purpose and types of Audiovisual and principles and sources etc. Graphic Aids:
- Chalk board, Charts graph poster
- Flash cards, flannel Graph, Bulletin Board, Cartoon Three Dimensional Aids:
- Objects, specimens, models, & puppets. Printed Aids:
- Pamphlets & leaflets. Projected Aids:
- Slides overhead projector transparency preparation
- Films, T.V. VCR / VCD • Camera, Microscope, LCD, DVD Audio Aids:
- Tape recorder, public address system
- Computer

Unit 3: Assessment

- Purpose & scope of evaluation & assessment
- Criteria for selection of assessment technique and methods.

Assessment of knowledge:

- Essay Type Questions, Short answer questions (SAQ), Multiple choice questions (MCQ)

Assessment Of Skills

- Observation checklist, Practical exam, Viva, Objective Structured, Clinical examination (OSCE)

Assessment of Attitudes:

- Attitude Scales

Unit 4: Information, Education & Communication for Health (ICE)

- Health behavior and health education
- Planning for health education
- Principles of health education
- Health education with individuals, groups and communities
- Methods and media for communicating health messages.
- Using mass media

Reference:

1. Bhatia, Kamala & Bhatia B.D.: *The Principles and Methods of Teaching* Delhi: Doaba House, 1977
2. Neeraja, *Nursing Education*: New Delhi, Jaypee Brother, 2004
3. Safaya, Raghunath & Shaida, B.D.: *Educational Theory & Practice*, Delhi, Dhanpat Row and Sons, 1974
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7. Pramila: *Nursing Communication and Education Technology*, New Delhi, Jaypee Brothers Medical Publishers, 2010

B.Voc. in Nursing Part – II
Semester - IV

Paper – XXX: Medical Surgical Nursing -II

Total Workload: 08 lectures per week of 60 min.

Distribution of Workload:

Theory: 04 lectures per week

Practical: 04 lectures per week per batch of 20 students

Total Marks: 100 marks (Theory 50 + Practical 50)

Units Prescribed for Theory:

Marks: 50

DESCRIPTION: This course is designed to equip the students to review and apply their knowledge of Anatomy, Physiology, Biochemistry and Behavioral sciences in caring for adult patients with Medical / Surgical disorders using nursing process approach. It also intends to develop competencies required for assessment, diagnosis, treatment, nursing management, and supportive /palliative and rehabilitative care to adult patients with various Medical Surgical disorders.

COMPETENCIES:

On completion of the course the students will apply nursing process and critical thinking in delivering holistic nursing care with selected Medical & Surgical conditions. At the completion of Adult Health Nursing II course, students will

1. Explain the etiology, patho-physiology, manifestations, diagnostic studies, treatments and complications of common medical and surgical disorders.
2. Perform complete health assessment to establish a data base for providing quality patient care and integrate the knowledge of diagnostic tests in the process of data collection
3. Identify diagnoses, list them according to priority and formulate nursing care plan
4. Perform nursing procedures skillfully and apply scientific principles while giving comprehensive nursing care to patients
5. Integrate knowledge of anatomy, physiology, pathology, nutrition and pharmacology in caring for patients experiencing various medical and surgical disorders
6. Identify common diagnostic measures related to the health problems with emphasis on nursing assessment and responsibilities
7. Demonstrate skill in assisting / performing diagnostic and therapeutic procedures
8. Demonstrate competencies/skills to patients undergoing treatment for medical surgical disorders
9. Identify the drugs used in treating patients with medical surgical conditions
10. Plan and provide relevant individual and group education on significant medical surgical topics
11. Maintain safe environment for patients and the health care personnel in the hospital

Unit 1:

Nursing management of patient with disorders of Ear, Nose and Throat

(Includes etiology, Patho-physiology, clinical manifestations, diagnostic measures and medical, surgical, nutritional and nursing management)

- Review of anatomy and physiology of the ear, nose and throat • History, physical assessment, and diagnostic tests

- **Ear**

- o External ear: deformities otalgia, foreign bodies and tumors

- o Middle ear- impacted wax, tympanic, membrane perforation, otitis media, and tumors.

- o Inner ear- Meniere's disease, labyrinthitis, ototoxicity tumors

- Upper respiratory airway infections –Rhinitis, sinusitis, tonsillitis, laryngitis

- Epistaxis, Nasal obstruction, laryngeal obstruction • Deafness and its management

Nursing management of patient with disorder of eye

- Review of anatomy physiology of the eye • History, physical assessment, diagnostic assessment

Eye Disorders: Refractive errors • Eyelids – infection, deformities • Conjunctiva – inflammation and infection bleeding • Cornea- inflammation and infection • Lens-cataract • Glaucoma • Retinal detachment • Blindness • Eye banking, Eye donation

Nursing management of patient with burns, reconstructive and cosmetic surgery

- Review of anatomy and physiology of the skin and connective tissues

- History, physical assessment, assessment of burns and fluid & electrolyte loss

- Burns • Reconstructive and cosmetic surgery for burns, congenital deformities, injuries and cosmetic purposes, gender reassignment • Legal and ethical aspects • Special therapies: LAD, vacuumed dressing. Laser, liposuction, skin health rejuvenation.

Unit 2:

Nursing management of patient with Kidney and Urinary problems

- Review of Anatomy and physiology of the genitourinary system • History, physical assessment, diagnostic tests

- Urinary tract infections • Nephritis, nephrotic syndrome • Renal calculi • Acute and chronic renal failure • Disorders of ureter, urinary bladder and Urethra • Disorders of prostate - inflammation, infection, stricture, obstruction, and Benign Prostate Hypertrophy

Nursing management of disorders of male reproductive system

- Review of Anatomy and physiology of the male reproductive system

- History, Physical Assessment, Diagnostic tests

- Infections of testis, penis • Sexual dysfunction, infertility, contraception • Male Breast Disorders - gynecomastia, tumor, climacteric changes

Nursing management of patients with Immunological problems

- Review of Immune system • Nursing Assessment – History and Physical assessment

- HIV & AIDS: Epidemiology, Transmission, Prevention of Transmission • Role of Nurse;

Counseling, Health education and home care consideration • National AIDS Control Program – NACO, various national and international agencies, Infection control programs • Rehabilitation

Unit 3:

Nursing management of patient with neurological disorders

- Review of anatomy and physiology of the neurological system
- History, physical, neurological assessment, diagnostic tests
- Headache, Head injuries • Spinal injuries – Paraplegia, Hemiplegia, Quadriplegia
- Spinal cord compression – herniation of in vertebral disc
- Intra cranial and cerebral aneurysms • Meningitis, encephalitis, brain, abscess, neuro cysticercosis • Movement disorders – Chorea, Seizures & Epilepsies • Cerebro-vascular disorders-CVA • Cranial, spinal neuropathies – Bell's palsy, trigeminal neuralgia • Peripheral Neuropathies
- Degenerative diseases - Alzheimer's disease, Parkinson's disease • Rehabilitation of patient with neurological deficit.

Nursing management of patient with Oncological conditions • Structure and characteristics of normal and cancer cells • History, physically assessment, diagnostic tests.

- Prevention screening early detections warning sign of cancer • Epidemiology, etiology classification, Pathophysiology, staging clinical manifestations, diagnosis, treatment modalities and medical and surgical nursing management of Oncological condition
- Common malignancies of various body system eye, ear, nose, larynx, breast, cervix, ovary, uterus, sarcoma, renal, bladder, kidney, prostate Brain, Spinal cord.
- Oncological emergencies • Modalities of treatment - Chemotherapy, Radiotherapy - Radiation safety, AERB regulations, Surgical intervention, Stem cell and bone marrow transplant, Immunotherapy, Gene therapy • Psychological aspects of cancer-anxiety, depression, insomnia, anger • Palliative care • Supportive care • Hospice care

Nursing management of patients occupational and industrial disorders

- History, physical examination, Diagnostic tests • Occupational diseases and management

Unit 4:

Nursing management of patient in Emergency and Disaster situations Disaster Nursing

- Concept and principles of disaster nursing, Related Policies • Types of disaster; Natural and manmade • Disaster preparedness - Team, guidelines, protocols, equipment, • Resources Etiology, classification, Pathophysiology, staging, clinical manifestation, staging, clinical manifestation, diagnosis, treatment modalities and medical and surgical nursing management of patient with medical and surgical emergencies – Poly trauma, Bites, Poisoning and Thermal emergencies
- Principles of emergency management • Medico legal aspects

Nursing care of the elderly • History and physical assessment • Aging process and age related body changes and • psychosocial aspects Stress and coping in elder patient • Psychosocial and sexual abuse of elderly • Role of family and formal and non-formal caregivers • Use of aids and prosthesis (hearing aids, dentures) • Legal and ethical issues • National programmes for elderly, privileges, community programs and health services • Home and institutional care

Nursing management of patients in critical Care units

- Principles of critical care nursing • Organization: physical set-up, policies, staffing norms • Protocols, equipment, and supplies, • Special equipment: ventilators, cardiac monitors, defibrillators, infusion pump, Resuscitation equipment • Advanced Cardiac Life support
- Nursing management of critically ill patient • Transitional care • Ethical and Legal Aspects
- Breaking Bad News to Patients and/or their families— Communication with patient and family
- End of life care

EDUCATIONAL VISITS:

Medical Surgical Nursing:

1. Blood Bank
2. Radiology Department
3. Artificial Limb Center

Reference :

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B.Voc. in Nursing Part – II
Semester - IV

Paper – XXXI: Pharmacology -II

Total Workload: 08 lectures per week of 60 min.

Distribution of Workload:

Theory: 04 lectures per week

Practical: 04 lectures per week per batch of 20 students

Total Marks: 100 marks (Theory 50 + Practical 50)

Units Prescribed for Theory:

Marks: 50

Course Description - This course is designed to enable students to acquire understanding of pharmacodynamics, pharmacokinetics, principles of therapeutics and nursing implications.

Specific objectives – At the end of the course the students are able to:

1. Understand common antiseptics, disinfectants and insecticides.
2. Understand drug acting on various systems of human body.
3. Understand alternative systems of medicines.

Unit:1

● **Drugs acting on Nervous System:**

Basic & applied pharmacology of commonly used:

❖ Analgesics & Anesthetics-

- ✓ Analgesics - Nonsteroidal antiinflammatory drugs (NSAID)
- ✓ Antipyretics
- ✓ Hypnotics and sedatives - Opioids - Non opioids - Tranquilizers - General & local anaesthetics - Gases – Oxygen, nitrous oxide, Carbon dioxide

❖ Cholinergic & anticholinergics-

- ✓ Muscle relaxants, Major tranquilizers, Anti psychotics, Antidepressants, Anticonvulsants, Adrenergics, Noradrenergics , Mood stabilizers, Acetylcholine, Stimulants

Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity & role of nurse.

Unit:2

● **Drugs used for hormonal, disorders and supplementation, contraception and medical termination of pregnancy •**

❖ Estrogens and progesterone

- ✓ Oral contraceptives and hormone replacement therapy

❖ Vaginal contraceptives

❖ Drugs for infertility and medical termination of pregnancy

- ✓ Uterine stimulants and relaxants

Composition, actions dosage route indications contraindications, drugs interactions, side effects, adverse effects, toxicity and role of nurse

Unit:3

- **Drugs used for pregnant women during antenatal, labour and postnatal period**
 - ❖ Tetanus prophylaxis
 - ❖ Iron and Vit K₁ supplementation
 - ❖ Oxytocin, Misoprostol
 - ❖ Ergometrine
 - ❖ Methyl prostaglandin F₂-alpha
 - ❖ Magnesium sulphate
 - ❖ Calcium gluconate

Unit:4

- **Miscellaneous:**
 - ❖ Drugs used for deaddiction
 - ❖ Drugs used in CPR and emergency- adrenaline, Chlorpheniramine, hydrocortisone, Dexamethasone
 - ❖ IV fluids & electrolytes replacement
 - ❖ Common poisons, drugs used for treatment of poisoning
 - ✓ Activated charcoal
 - ✓ Ipecac
 - ✓ Antidotes
 - ✓ Anti-snake venom (ASV)
 - ❖ Vitamins and minerals supplementation •
 - ❖ Vaccines & sera (Universal immunization program schedules)
 - ❖ Anticancer drugs- Chemotherapeutic drugs commonly used
 - ❖ Immuno-suppressants and Immunostimulants
- **Introduction to drugs used in alternative systems of medicine:**
 - ❖ Ayurveda, homeopathy, unani and siddha etc.
 - ❖ Drugs used for common ailments

Reference Books :

1. Satoskar, Bhandarkar, Ainapure: Pharmacology and Pharmacotherapeutics, 18 Edition Popular Prakashan Mumbai.
2. M M Das: Pharmacology, Books & Allied (p) Ltd, 4 Edition 2001.
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4. Ramesh Karmegan: First aid to Pharmacology for undergraduates, Paras Medical publishers, Hyderabad, India, 1 Edition 2003.
5. K D Tripathi: Essentials of Medical Pharmacology, 4 Editions, Jaypee Brothers, Bangalore.
6. Govoni & Hayes: Drugs and nursing implications, 8 Edition, Appleton & Lange Newyork.

7. Rodman & Smith: Clinical pharmacology in nursing, 2 Edition, J B Lippincott company, Philadelphia.
8. Richard A Lehne : Pharmacology for nursing care , 3 Edition ,W B S aunders company , Philadelphia, 1990.
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B.Voc. in Nursing Part – II
Semester - IV

Paper – XXXII: Fundamentals of Nursing -II

Total Workload: 08 lectures per week of 60 min.

Distribution of Workload:

Theory: 04 lectures per week

Practical: 04 lectures per week per batch of 20 students

Total Marks: 100 marks (Theory 50 + Practical 50)

Units Prescribed for Theory:

Marks: 50

DESCRIPTION: This course is designed to help novice nursing students develop knowledge and competencies required to provide evidence-based, comprehensive basic nursing care for adult patients, using nursing process approach.

COMPETENCIES

On completion of the course, the students will be able to

1. Identify and meet the hygienic needs of patients
2. Demonstrate fundamental skills of assessment, planning, implementation and evaluation of nursing care using Nursing process approach in supervised clinical settings
3. Assess the Nutritional needs of patients and provide relevant care under supervision
4. Identify and meet the elimination needs of patient
5. Interpret findings of specimen testing applying the knowledge of normal values
6. Promote oxygenation based on identified oxygenation needs of patients under supervision
7. Review the concept of fluid, electrolyte balance integrating the knowledge of applied physiology
8. Apply the knowledge of the principles, routes, effects of administration of medications in administering medication
9. Calculate conversions of drugs and dosages within and between systems of measurements
10. Demonstrate knowledge and understanding in caring for patients with altered functioning of sense organs and unconsciousness
11. Explain loss, death and grief
12. Describe sexual development and sexuality
13. Identify stressors and stress adaptation modes
14. Integrate the knowledge of culture and cultural differences in meeting the spiritual needs
15. Explain the introductory concepts relevant to models of health and illness in patient care
16. Perform first aid measures during emergencies

Unit 1:

Hygiene

- Factors Influencing Hygienic Practice
- Hygienic care: Indications and purposes, effects of neglected care
 - Care of the Skin- (Bath, feet and nail, Hair Care)
 - Care of pressure points
 - Assessment of Pressure Ulcers using Braden Scale and Norton Scale
 - Pressure ulcers- causes, stages and manifestations, care and prevention
 - Perineal care/ Meatal care
 - Oral care, Care of Eyes, Ears and Nose including assistive devices (eye glasses, contact lens, dentures, hearing aid)

The Nursing Process

- Critical Thinking Competencies, Attitudes for Critical Thinking, Levels of critical thinking in Nursing
- Nursing Process Overview: Assessment, Nursing Diagnosis, Goal, Planning, Implementation, Rationale, Evaluation.

Unit 2:

Nutritional needs

- Importance, Factors affecting nutritional needs, Assessment of nutritional status, Review: special diets- Solid, Liquid, Soft, Review on therapeutic diets, Care of patient with Dysphagia, Anorexia, Nausea, Vomiting
- Meeting Nutritional needs: Principles, equipment, procedure, indications: Oral, Enteral: Nasogastric/ Orogastric, Introduction to other enteral feeds-types, indications, Gastrostomy, Jejunostomy, Parenteral- TPN

Elimination needs

- Urinary Elimination
 - Review of Physiology of Urine Elimination, Composition and characteristics of urine
 - Factors Influencing Urination
 - Alteration in Urinary Elimination: Facilitating urine elimination: assessment, types, equipment, procedures and special considerations
 - Providing urinal/bed pan
 - Care of patients with
 - Condom drainage
 - Intermittent Catheterization
 - Indwelling Urinary catheter and urinary drainage
 - Urinary diversions
 - Bladder irrigation
- **Bowel Elimination**
 - Review of Physiology of Bowel Elimination, Composition and characteristics of feces
 - Factors affecting Bowel elimination
 - Alteration in Bowel Elimination
 - Facilitating bowel elimination: Assessment, equipment, procedures
 - Enemas
 - Suppository
 - Bowel wash
 - Digital Evacuation of impacted feces

- Care of patients with Ostomies (Bowel Diversion Procedures)

Oxygenation needs

- Review of Cardiovascular and Respiratory Physiology
- Factors affecting respiratory functioning
- Alterations in Respiratory Functioning
 - Conditions affecting
 - Airway, movement of air, diffusion, Oxygen transport
 - Alterations in oxygenation
 - Nursing interventions to promote oxygenation: assessment, types, equipment used & procedure
 - Maintenance of patent airway
 - Oxygen administration
 - Suctioning- oral, tracheal
 - Chest physiotherapy- Percussion, Vibration & Postural drainage
 - Care of Chest drainage- principles & purposes
 - Pulse Oximetry- Factors affecting measurement of oxygen saturation using pulse oximeter, Interpretation
- Restorative & continuing care
 - Hydration
 - Humidification
 - Coughing techniques
 - Breathing exercises
 - Incentive spirometry

Unit 3:

Fluid and Electrolyte

- Types of IV fluids
- Calculation for making IV fluid plan
- Complications of IV fluid therapy
- Measuring fluid intake and output
- Administering Blood and Blood components
- Restricting fluid intake
- Enhancing Fluid intake

Administration of Medications

- Introduction-Definition of Medication, Administration of Medication, Drug Nomenclature, Effects of Drugs, Forms of Medications, Purposes, Pharmacodynamics and Pharmacokinetics
- Factors influencing Medication Action
- Medication orders and Prescriptions
- Systems of measurement
- Medication dose calculation
- Principles, 10 rights of Medication Administration
- Errors in Medication administration, Routes of administration
- Storage and maintenance of drugs and Nurses responsibility
- Terminologies and abbreviations used in prescriptions and medications orders
- Developmental considerations
- Oral, Sublingual and Buccal routes: Equipment, Procedure

- Introduction to Parenteral Administration of Drugs- Intramuscular, Intravenous, Subcutaneous, Intradermal: Location of site, Advantages and disadvantages of the specific sites, Indication and contraindications for the different routes and sites.
- Equipment- Syringes & needles, cannulas, Infusion sets - parts, types, sizes
- Types of vials and ampoules, Preparing Injectable medicines from vials and ampoules
- Care of equipment: decontamination and disposal of syringes, needles, infusion sets
- Topical Administration: Types, purposes, site, equipment, procedure
 - Application to skin & mucous membrane
 - Direct application of liquids, Gargle and swabbing the throat
 - Insertion of Drug into body cavity: Suppository/ medicated packing in rectum/vagina
 - Instillations: Ear, Eye, Nasal, Bladder, and Rectal
 - Irrigations: Eye, Ear, Bladder, Vaginal and Rectal
 - Spraying: Nose and throat
- Inhalation: Nasal, oral, endotracheal/ tracheal (steam, oxygen and medications)- purposes, types, equipment, procedure, recording and reporting of medications administered
- Other Parenteral Routes: Meaning of epidural, intrathecal, intraosseous, intraperitoneal, intrapleural, intraarterial

Unit 4:

Care of Unconscious Patients

- Unconsciousness: Definition, causes & risk factors, pathophysiology, stages of Unconsciousness, Clinical Manifestations
- Assessment and nursing management of patient with unconsciousness, complications

Care of Terminally ill, death and dying

- Loss- Types
- Grief, Bereavement & Mourning
- Types of Grief responses
- Manifestations of Grief
- Factors influencing Loss & Grief Responses
- Theories of Grief & Loss-Kubler Ross 5 Stages of Dying
- The R Process model (Rando's)
- Death- Definition, Meaning, Types (Brain & Circulatory Deaths)
- Signs of Impending Death
- Dying patient's Bill of Rights
- Care of Dying Patient
- Physiological changes occurring after Death
- Death Declaration, Certification, Autopsy, Embalming
- Last office/Death Care
- Counseling & supporting grieving relatives
- Placing body in the Mortuary
- Releasing body from Mortuary
- Overview- Medico-legal Cases, Advance directives, DNI/DNR, Organ Donation, Euthanasia

First Aid & Emergencies:

- Definition, Basic Principles, Scope & Rules
- First Aid Management
 - Wounds, Hemorrhage & Shock
 - Musculoskeletal Injuries: Fractures, Dislocation, Muscle injuries
 - Transportation of Injured persons
 - Respiratory Emergencies & Basic CPR
 - Unconsciousness
 - Foreign Bodies- Skin, Eye, Ear, Nose, Throat & Stomach
 - Burns & Scalds
 - Poisoning, Bites & stings
 - Frostbite & Effects of Heat
 - Community Emergencies

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1. Audrey Berman and Shirlee Snyder. *Kozier & Erb's Fundamentals of Nursing: Concepts, Process and Practice*, Pearson; 11th edition (28 February 2020).
2. Potter and Perry. *Fundamentals of Nursing*; 10th Edition, Elsevier: 28th Feb, 2020
3. Sr. Nancy. *Principles & Practice Of Nursing Vol 1 Nursing Arts Procedures*, HARSHI BOOK STORE (1 January 2019).
4. *Comprehensive Textbook Of Foundation Of Nursing Paperback* – 1 January 2016 by Nissanka Rebecca Jaypee Brothers Medical Publishers; first edition (1 January 2016)
5. *Fundamentals of Nursing For B.Sc Nursing Students*, 3rd.ed. Paperback – 1 January 2020 by Celestina Francis (Author), Kritika Mishra (Author) Lotus Publishers (1 January 2020)
6. Celestina Francis, Kritika Mishra. *Fundamental of Nurses for B.Sc Nursing Students*, Lotus Publishers Pvt Edition: 3rd, 2020.
7. Taylor. *Fundamentals of Nursing*, Wolters Kluwer India Pvt. Ltd.; Eighth edition (1 January 2016)
8. Annamma Jacob. *Clinical Nursing Procedures: The Art of Nursing Practice* 3rd Edition, Kindle Edition; Jaypee Brothers Medical Publishers (P) Ltd.; 4th edition (1 September 2014).
9. Omayal Achi. *Manual of Nursing Procedures*, Wolters Kluwer India Private Limited; Second edition (15 January 2018)
10. CP Thresyamma *Fundamentals Of Nursing Procedure Manual For General Nursing & Midwifery Course*, 1st Edt, Jaypee Brothers Medical Publishers Year: 2004

B.Voc. in Nursing Part – II**Semester - IV****Paper – XXXIII: Lab Work and Clinical:Medical Surgical****Nursing-IITotal Workload: 04 lectures per week of 60 min.****Distribution of Workload:**

Practical: 04 lectures per week per batch of 20 students

Practicals:**Marks: 50**

The students will be competent to:

1. Utilize the nursing process in providing care to the sick adults in the hospital
 - a. Perform complete health assessment to establish a data base for providing quality patient care
 - b. Integrate the knowledge of diagnostic tests in patient assignment
 - c. Identify nursing diagnoses and list them according to priority
 - d. Formulate nursing care plan, using problem solving approach
 - e. Apply scientific principles while giving nursing care to patients
 - f. Develop skill in performing nursing procedures applying scientific principle
 - g. Establish /develop interpersonal relationship with patients and family members
 - h. Evaluate the expected outcomes and modify the plan according to the patient needs
2. Provide comfort and safety to adult patients in the hospital
3. Maintain safe environment for patients during hospitalization
4. Explain nursing actions appropriately to the patients and family members
5. Ensure patient safety while providing nursing procedures
6. Assess the educational needs of the patient and their family related to medical and surgical disorders and provide appropriate health education to patients
7. Provide pre, intra and post-operative care to patients undergoing surgery
8. Integrate knowledge of pathology, nutrition and pharmacology for patients experiencing selected medical and surgical disorders
9. Integrate evidence-based information while giving nursing care to patients
10. Demonstrate the awareness of legal and ethical issues in nursing practice

Sr.No.	Nursing Skills
I	Eye and ENT: Perform examination of Eye, Nose, Throat; Assist with diagnostic and therapeutic procedure, Assist in Irrigation, Performing tracheostomy care, Bandaging Eye, Ear and Nose, Assist with removal of foreign body.
II	Neurology: Perform Neurological examination , Use of Glasgow Coma Scale, Assisting in diagnostic and therapeutic procedure.

III	Gynecology: Assist with Gynaecological examination, Assisting with diagnostic and therapeutic procedure, Teaching Breast self examination, Assist with PAP smear collection.
IV	Burns and Scalds: Assessment of burns Patient, Percentage of burns, Degree of burns, Fluid & Electrolyte replacement therapy, Care of burn wounds, Bathing , Dressing, Preparation for reconstructive surgery & donor area.
V	Oncology: Assist with diagnostic procedures, Biopsies, Pap smear, Bone marrow aspiration, Chemotherapy, Radiotherapy, Pain management , Hormonal therapy, Immuno therapy, Gene therapy, Alternative therapy, Participate in Palliative care.
VI	Critical Care: Monitoring of Patients, Maintaining flow sheet, Care of patient on ventilator, Performing Endotracheal Suctioning, Collection of specimen, Interpretation of ABG analysis, Assist with arterial puncture, Maintaining CVP line, Administration of drugs, Infusion Pump, Epidural, Intra thecal, Intra cardiac, Providing chest physiotherapy, Providing total parenteral therapy.

B.Voc. in Nursing Part – II

Semester - IV

Paper – XXXIV: Lab Work and Clinical: Pharmacology -II

Total Workload: 04 lectures per week of 60 min.

Distribution of Workload:

Practical: 04 lectures per week per batch of 20 students

Practicals:

Marks: 50

Assignments:

- | | |
|-------------------------------------|----------|
| a) Pharmacology - Drug Study Book | 25 Marks |
| b) Pharmacology - Drug Presentation | 25 Marks |

Format for Assignment: -

- i) Drug study
- ii) Index of drug
- iii) Introduction
- iv) Classification of drugs
- v) Factors affecting action of drugs
- vi) Name of the drug (Trade & Pharmaceutical name)
- vii) Preparation, strength and dose
- viii) Indications and contraindications
- ix) Actions
- x) Adverse effects and drug interactions
- xi) Nursing responsibility
- xii) Conclusion
- xiii) References

Evaluation criteria :

Planning and organization-----	05
Content	10
Nursing responsibility-----	05
Conclusion & References-----	05
Total	25

B.Voc. in Nursing Part – II
Semester - IV

Paper – XXXV: Lab Work and Clinical: Fundamentals of Nursing -II

Total Workload: 04 lectures per week of 60 min.

Distribution of Workload:

Practical: 04 lectures per week per batch of 20 students

Practicals:

Marks: 50

SEMESTER IV

1. Implement basic nursing techniques in meeting hygienic needs of patients
2. Develop skills in assessment, planning, implementation and evaluation of nursing care using Nursing process approach
3. Identify and meet the Nutritional needs of patients
4. Plan and Implement care to meet the elimination needs of patient
5. Develop skills in instructing and collecting samples for investigation.
6. Perform simple lab tests and analyze & interpret common diagnostic values
7. Identify patients with impaired oxygenation and demonstrate skill in caring for patients with impaired oxygenation
8. Identify and demonstrate skill in caring for patients with fluid, electrolyte and acid – base imbalances
9. Assess, plan, implement & evaluate the basic care needs of patients with altered functioning of sense organs and unconsciousness
10. Care for terminally ill and dying patients
11. Identify stress and assist patients to adopt various coping strategies
12. Acquire skills in assessing and performing First Aid during emergencies

SR. NO	COMPETENCIES	MODE OF DEMONSTRATION
1	Nutritional Assessment	Standardized Patient
2	Providing bed pan & urinal	Mannequin
3	Catheter care	Catheterization Trainer
4	Bowel wash, enema, insertion of suppository	Simulator/ Mannequin
5	Oxygen administration- face mask, venture mask, nasal prongs	Mannequin
6	Administration of medication through Parenteral route- M, SC, ID, IV	IM injection trainer, ID injection trainer, IV arm (Trainer)
7	CPR	CPR Mannequin
8	Medical and Surgical Asepsis	Tainer
9	Pain Assessment	Standardized patient
10	ROM Exercises	Standardized patient
11	Ambulation	Standardized patient
12	Therapeutic Communication and Documentation	Role Play

SEMESTER IV

Sr.No.	Nursing Skills
1.	Elimination: Giving and removing bedpan, Giving & removing urinal, Perineal Care, Care of incontinent patient, Catheter Care, Enema, Glycerin Enema, Bowelwash, Colonic irrigation, Passing Flatus tube, Suppositories.
2.	Observation, Recording & Reporting : Temperature- Oral/ Axillary/ Rectal, Pulse, Respiration, Blood Pressure, Weight/ Height, Intake/ Output chart, Oral report.
3.	Collection of Specimen: Urine- routine, Midstream & C/S, Feces routine- Foroccult blood, Vomitus, Sputum, Thorat Swab, Wound swab.
4.	Urine testing: Sugar, Albumin, Sp. Gravity, Reaction.
5.	Preparation of Patient: General physical exam, Eye, Ear & Thoart, Rectal, Vaginal.
6.	Therapeutic measures: A) Cold compress: Ice cap, Cold/ tapid sponge, Cold pack, Ice pack B) Hot application: Hot water bag, Fomentation- Medicated, Non-Medicated, Sitz bath
7.	Administration of Medicine: Calculating strength , Preparation of Lotion, Calculation of dosage, Administration of Oral Medicines, Topical Applications of Medicines: i) Ear- Application of drops, ii) Eye- Application of ointment: Instillation of drops and Eye irrigation; ii) Thorat - Gargles, Painting
8.	Inhalation: Medication, Dry, Moist-Steam, Oxygen (prongs, mask), Nebulisation, Use of spirometry
9.	Care of equipment: Bed linen, Blanket, Furniture & fittings, Instruments, Rubber goods, Sanitary utensils, Glass articles, Stainless steel articles, Plastic articles, Kitchen articles, Sharp articles, Enamel articles.
10.	Prevention of cross infection: Hand washing, Isolation technique, Use of gown, gloves, mask & cap, Disinfection of linen, Disinfection of instruments, Disinfection of rubber goods, Disinfection of glass items, Disposal of infected dressing, faces/sputum.
11.	Miscellaneous: Deep breathing & coughing exercises, Active & Passive ROM Exercise, Basic Life Support - CPR, Care of the dead / dying.

B.Voc. in Nursing Part – II
Semester - IV

Paper – XXXVI: Internship and Project work

Total Workload: 04 lectures per week of 60 min.

Distribution of Workload:

Practical: 04 lectures per week per batch of 20 students

Practicals:

Marks: 50

Internship in associated hospital for hands on training and Project work based on any one aspect / Problem related to syllabus.

Scheme of External Evaluation :-

a) Internship

- | | |
|---------------------------------|----------|
| 1) Internship Report | 15 Marks |
| 2) Presentation and viva - Voce | 10Marks |

b) Project Work

- | | |
|---------------------------------|----------|
| 1) Project Report | 15 Marks |
| 2) Presentation and viva - Voce | 10 Marks |

I) Format of Internship Report

1. Introduction to Course and relevance of associated institutes
2. Objective of Internship
3. Schedule and Attendance of Internship
4. Detail Report on Hands on training regarding acquired skills
5. Conclusion

II) Project Design and Methodology

1. Introduction
2. Selection of Problem
3. Objectives
4. Statement of Problem / Project
5. Data Collection, Interpretation
6. Finding and Suggestions
7. Appendices, Bibliography

➤ **Note :**

Guidelines for internship

1. Every candidate have to devote per day 6 hours in associated hospital and complete their total Clinical hours as per the subjects.
2. Candidate has to write daily report of work done, and should maintain the daily diary
3. Candidate has to follow all the rules of associated institute / hospitals.

Guidelines for Project

1. Every candidate will be given the mentor for the project, she has to prepare the project work. Under his/ her supervision
2. All candidates must have to follow the **Project Design and Methodology** format